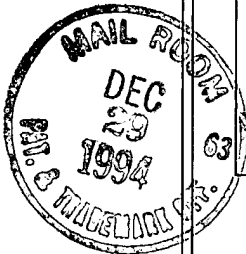


1804/3



I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Honorable Commissioner of Patents and Trademarks Washington, D.C. 20231 on 12/27, 1994.

TOWNSEND and TOWNSEND KHOURIE and CREW

By Wilene C. Grant

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PATENT
Attorney Docket No. 16336-3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)
OSBORNE et al.)
Serial No. 08/217,324)
Filed: March 24, 1994)
For: DEVICES AND METHODS FOR)
IMPLANTING TRANSDUCED)
CELLS)

Examiner: Not Assigned

Art Unit: 1804 180

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir:

Applicants direct the Examiner's attention to the references below, also listed on the accompanying Form PTO-1449. A copy of each is also enclosed.

The following foreign patents are set forth below by publication date.

AN. WO90/06997 publication date June, 1990.

The following articles are set forth by the indicated year of publication date:

AO. Baker, et al., "Endothelialization of Human Collagen Surfaces with Human Adult Endothelial Cells," J. Surg. 150:197-200 (1985).

AP. Anderson, et al., "In Vitro Endothelialization of Small-Caliber Vascular Grafts," Surgery, 101:577-586 (1987).

AQ. Herring, et al., "Endothelial Seeding of Polytetrafluoroethylene Popliteal Bypass," J. Vasc. Surg., 6:114-118 (1987).

AR. Wilson, et al., "The Composite Corethane/Dacron Vascular Prosthesis," ASAIO Trans., 37:M475-M476 (1991).

AS. Matsuda, et al., "Development of a Novel Artificial Matrix with Cell Adhesion Peptides for Cell Culture and Artificial and Hybrid Organs," ASAIO Trans., 35:677-679 (1989).

AT. Scharffetter, et al., "Localization of Collagen α_1 (I) Gene Expression During Wound Healing by In Situ Hybridization," J. Invest. Dermatol., 93:405-412 (1989).

AU. Dichek, et al., "Seeding of Intravascular Stents with Genetically Engineered Endothelial Cells," Circulation, 80:1347-1353, (1989).

AV. Brothers, et al., "Effects of Duration of Acetylsalicylic Acid Administration on Patency and Anastomotic Hyperplasia of ePTFE Grafts," ASAIO Trans., 35:558-560 (1989).

AW. Ozeki, et al., "Development of an Artificial Extracellular Matrix," ASAIO Trans., 36:M294-M296 (1990).

AX. Matsuda, et al., "Development of Hybrid Compliant Graft: Rapid Preparative Method for Reconstruction of a Vascular Wall," ASAIO Trans., 35:553-555 (1989).

AY. Vohra, et al., "Effects of Shear Stress on Endothelial Cell Monolayers on Expanded Polytetrafluoroethylene (ePTFE) Grafts Using Preclot and Fibronectine Matrices," Eur. J. Vasc. Surg., 4:33-41 (1990).

AZ. Lim, et al., "Direct In Vivo Gene Transfer into the Coronary and Peripheral Vasculatures of the Intact Dog," Circulation, 83:2007-2011 (1991).

BA. Moghaddam, et al., "Development of a 3-D Artificial Extracellular Matrix Design Concept and Artificial Vascular Media," ASAIO Trans., 37:M437-M438 (1991).

BB. Vohra, et al., "In Vitro Adherence and Kinetics Studies of Adult Human Endothelial Cell Seeded Polytetrafluoroethylene and Gelatin Impregnated Dacron Grafts," Eur. J. Vasc. Surg., 5:93-103 (1991).

BC. Prendville, et al., "Increased In Vitro Incubation Time of Endothelial Cells on Fibronectin-treated ePTFE Increases Cell Retention in Blood Flow," Eur. J. Vasc. Surg., 5:311-319 (1991).

BD. Welch, et al., "Endothelial Cell Seeding: A Review," Ann. Vasc. Surg., 6:473-484 (1992).

BE. Noishiki, et al., "A Method to Reduce Thrombogenicity of a Graft for Small Diameter Arterial Substitution Seeded with Autologous Venous Tissue Fragments," ASAIO J. 38:M158-M162 (1992).

BF. Takatsuka, et al., "Preparation of an RGD ALB Conjugate In Vitro Analysis of Cellular Responses," ASAIO J., 38:M275-M278.

BG. Kanda, et al., "Two-Dimensional Orientational Response of Smooth Muscle Cells to Cyclic Stretching," ASAIO J., 38:M382-M385 (1992).

BH. Babaev, et al., "Phenotype Related Changes of Intimal Smooth Muscle Cells from Human Aorta in Primary Culture," Artherosclerosis, 96:189-202 (1992).

BI. Matsuda, et al., "Photoinduced Prevention of Tissue Adhesion," ASAIO J. 38:M154-M157 (1992).

BJ. Han, et al., "Retroviral Mediated G-CSF Expression in Transplanted Rat Vascular Smooth Muscle Cells," J. Cell. Biochem., Supp 17E:225 Abst. SZ105 (1993).

BK. Geary, et al., "Transduced Vascular Smooth Muscle Cells in a Canine Model of Gene Therapy," Clinical Res., 41:194A (1993).

It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

Applicants believe that their invention as claimed is patentable over the above references taken alone or in any combination. However, Applicants reserve the right to demonstrate that their claimed invention was made prior to any one or more of the above-identified references. No inference should be drawn as to the pertinence of the references based on the order in which they are presented.

Applicants respectfully request that the Examiner review the foregoing references to make his or her own determination of the patentability of the present invention and that the references be made of record in the file of this application.

This Information Disclosure Statement is being filed three months after the filing date, but prior to the first Office Action on the merits.

Although no fee is believed to be due, the Commissioner is hereby authorized to charge any fees necessitated by this transmittal to Townsend and Townsend Deposit Account No. 20-1430.

Respectfully submitted,

Date: December 27th, 1994

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Enc: PTO-1449
Cited References